

Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72011

Entry Year 2021

Acreage: 2,097

County Oscoda

Management Area: AuSable Outwash

Revision Date: 2019-07-09

Stand Examiner: Kevin Ehlert

Legal Description:

T27N, R02E Section 4 and 5 and T28N, R02E Section 32 and 33, Elmer Township.

Identified Planning Goals:

To maintain species and structural diversity while addressing sustainability, forest health, wildlife habitats, aesthetics and recreational opportunities throughout the compartment.

Soil and topography:

The soils types within the compartment consist of well-drained Grayling and Graycalm sands. The topography throughout the compartment consists of flat to rolling terrain.

Ownership Patterns, Development, and Land Use in and Around the Compartment:

Ownership within the compartment is primarily State land with the exception of a large area of privately owned parcels located in Sections 32 and 33. Scattered residences, mostly seasonal, exist on these parcels. There is heavy residential use of the State land.

Unique Natural Features:

None known. The potential to have threatened or endangered species of plants and animals within the compartment does exist. Kirtland's Warbler habitat is directly adjacent to the west boundary of the compartment

Archeological, Historical, and Cultural Features:

See Locked Comments.

Special Management Designations or Considerations:

No special designations. Compartment is a major recreational area. The recreational trail system is a major factor to consider when prescribing forest treatments.

Watershed and Fisheries Considerations:

This compartment is in the Au Sable River watershed, and contains a portion of Noodles Lake. Fisheries has no concerns with the prescribed management activities.

Wildlife Habitat Considerations:

To manage and maintain existing cover types and habitats for both non-game and game species. There is several managed wildlife openings within this compartment and plans to continue managing them in an open state.

Mineral Resource and Development Concerns and/or Restrictions

The nearest active sand/gravel pit is located three miles to the southeast, but there appears to be good sand & gravel potential within the compartment. The compartment is located within the southern extent of the Antrim Shale gas play. Some of the compartment has been developed for natural gas, but all wells within the compartment have been plugged and abandoned. There is still active production occurring to the northeast and north. There is unlikely to be further Antrim development within the compartment, and there is no other known oil & gas potential in this area. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Most of the compartment is easily accessible from the county roads system. County roads include Richardson, Penn, Noodles Lake, Nancy Brown, Farrington and Centerline. There are several state forest roads that branch off of these roads in which dead end at closed oil and gas well sites. Any newly constructed forest access routes due to the treatment of stands within the compartment need to be closed when treatments are done.

Survey Needs:

Survey corners exist throughout most of the compartment and therefore there should be no survey needs at this time.

Recreational Facilities and Opportunities:

There are no recreational facilities, but there are several designated recreational trails that traverse through the compartment. These trails include portions of the Muskrat Lake Snowmobile Trail #4/9, the Mio Loop ORV trail, and the Mio ORV Route. Muskrat Lake State Forest Campground (temporarily closed) and an ORV staging area exist within the adjacent compartment to the south. Other recreational opportunities include hunting, mushroom/berry picking, and bird and wildlife watching in this compartment.

Fire Protection:

Access for fire equipment is not a problem. Most of the compartment is accessible by County Roads. Nearby water sources include Noodles Lake and Muskrat Lake. The fire protection for this compartment is the Mio DNR and the Tri-Town Fire Department.

Additional Compartment Information:

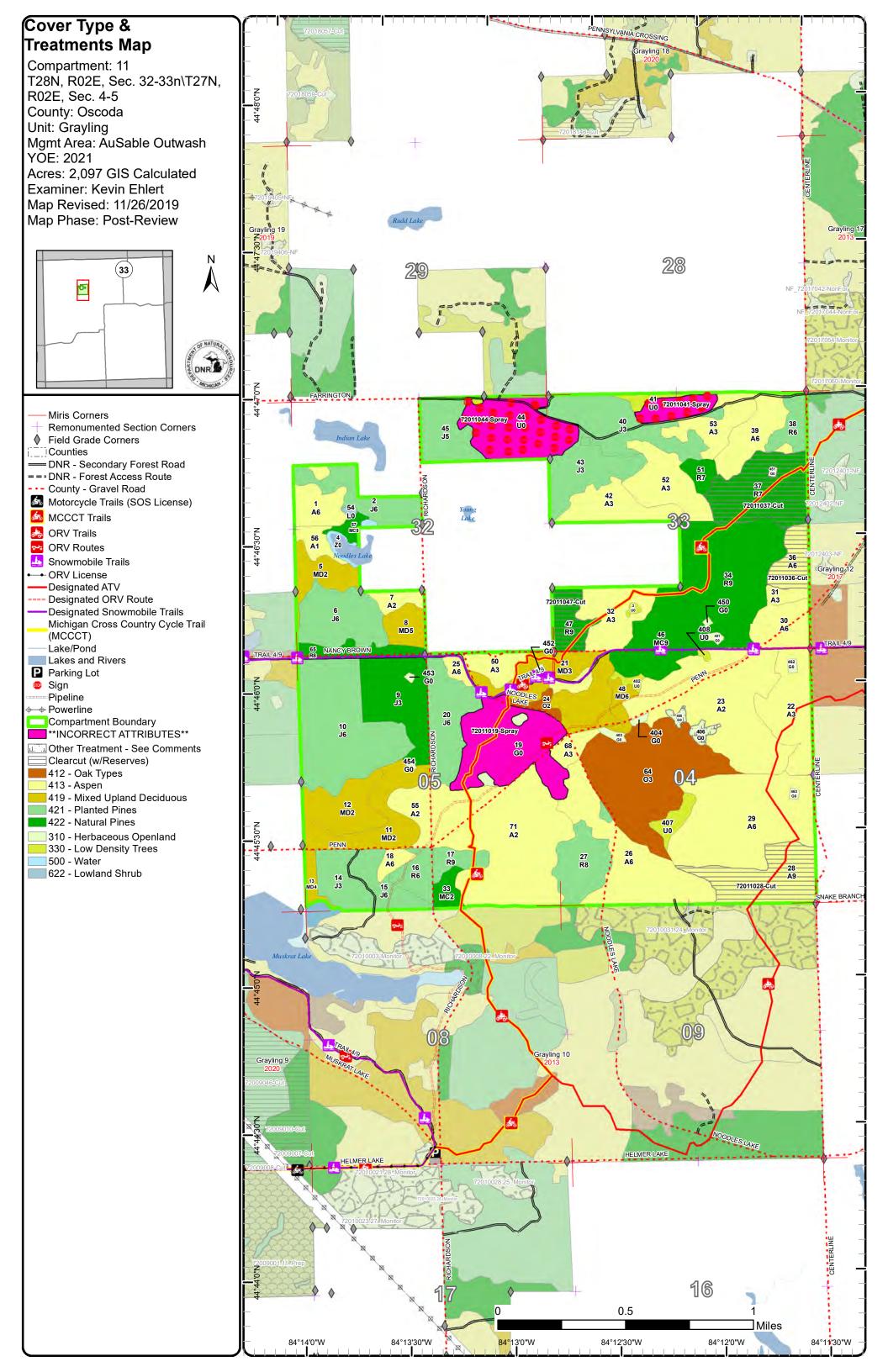
A spacing study for White Pine Weevil is located in the N1/2 of Section 5. Several stands harvested during the 2001 YOE were recommended for the planting of Jack Pine and were not planted. These stands have naturally regenerated to a mix of species. This study has not continued.

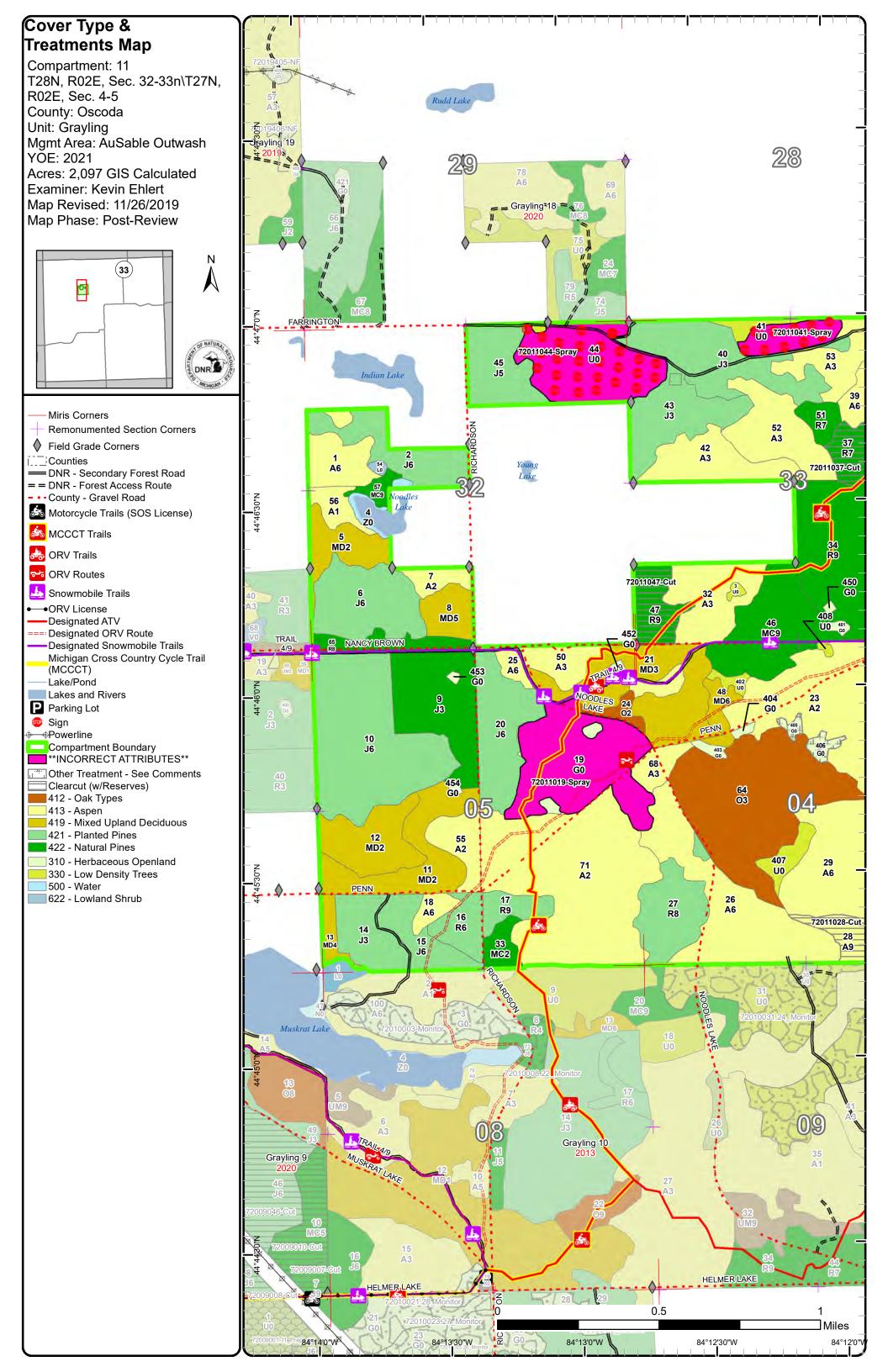
The following reports from the Inventory are attached:

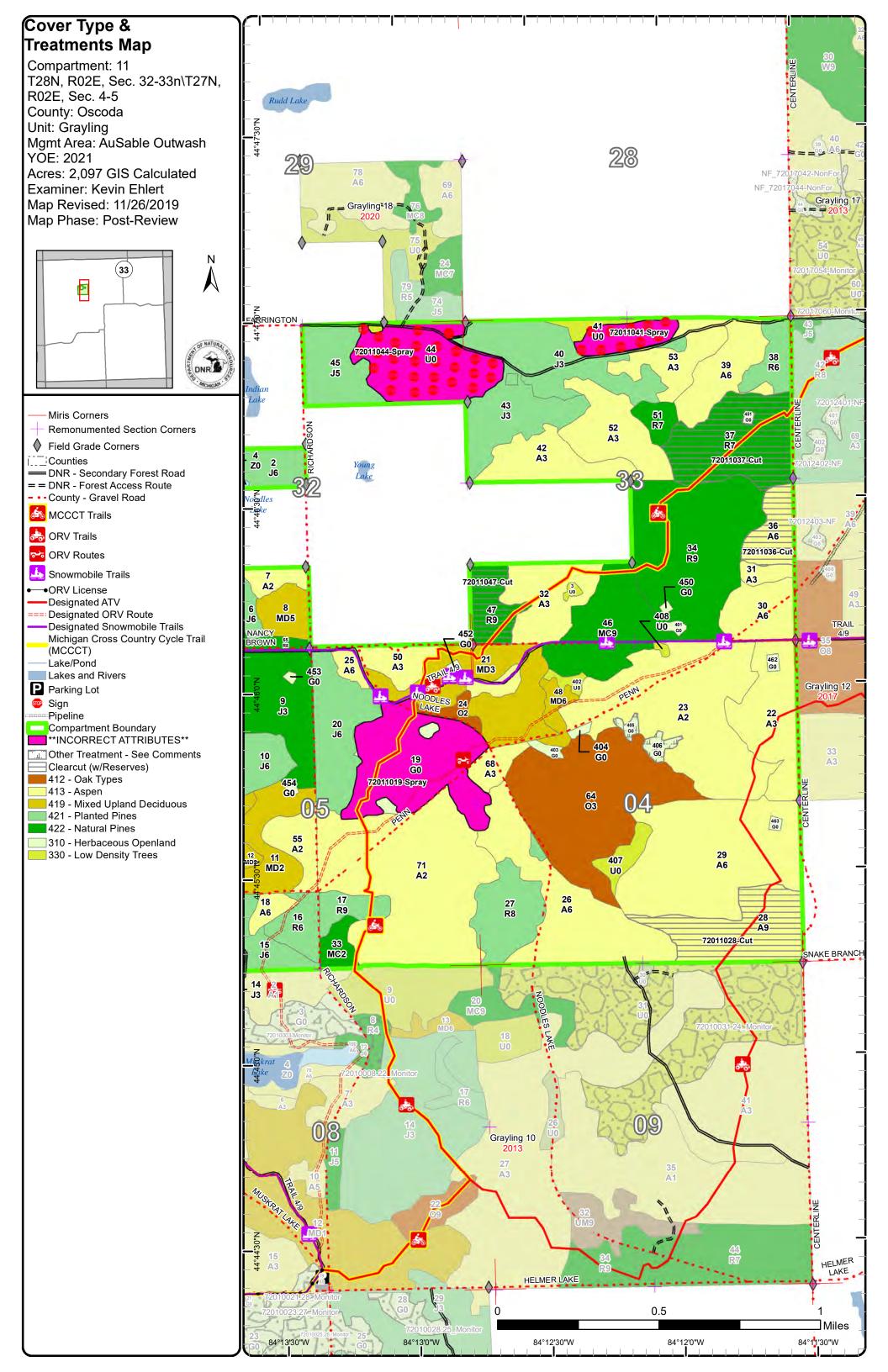
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

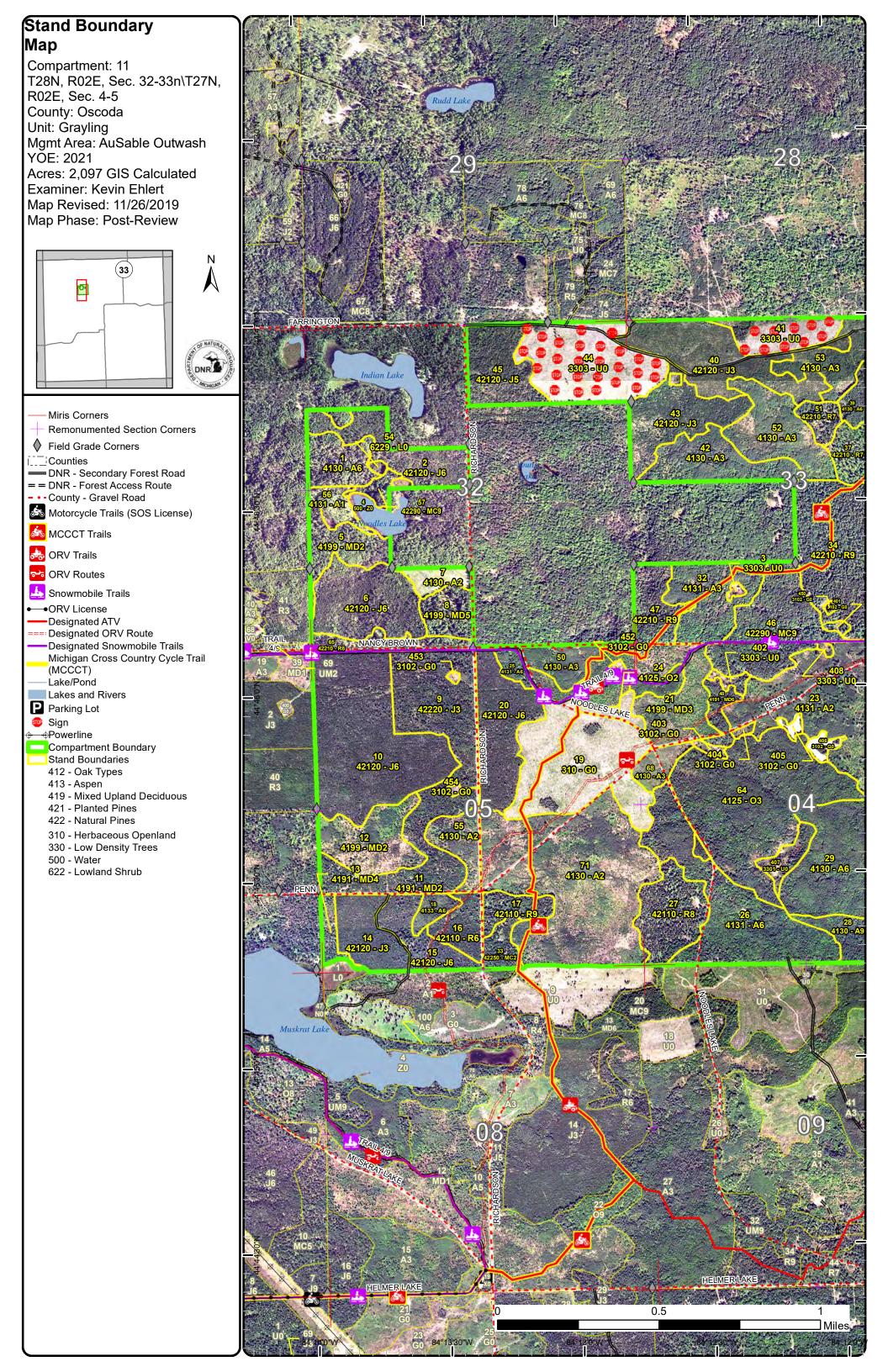
The following information is displayed, where pertinent, on the attached compartment maps:

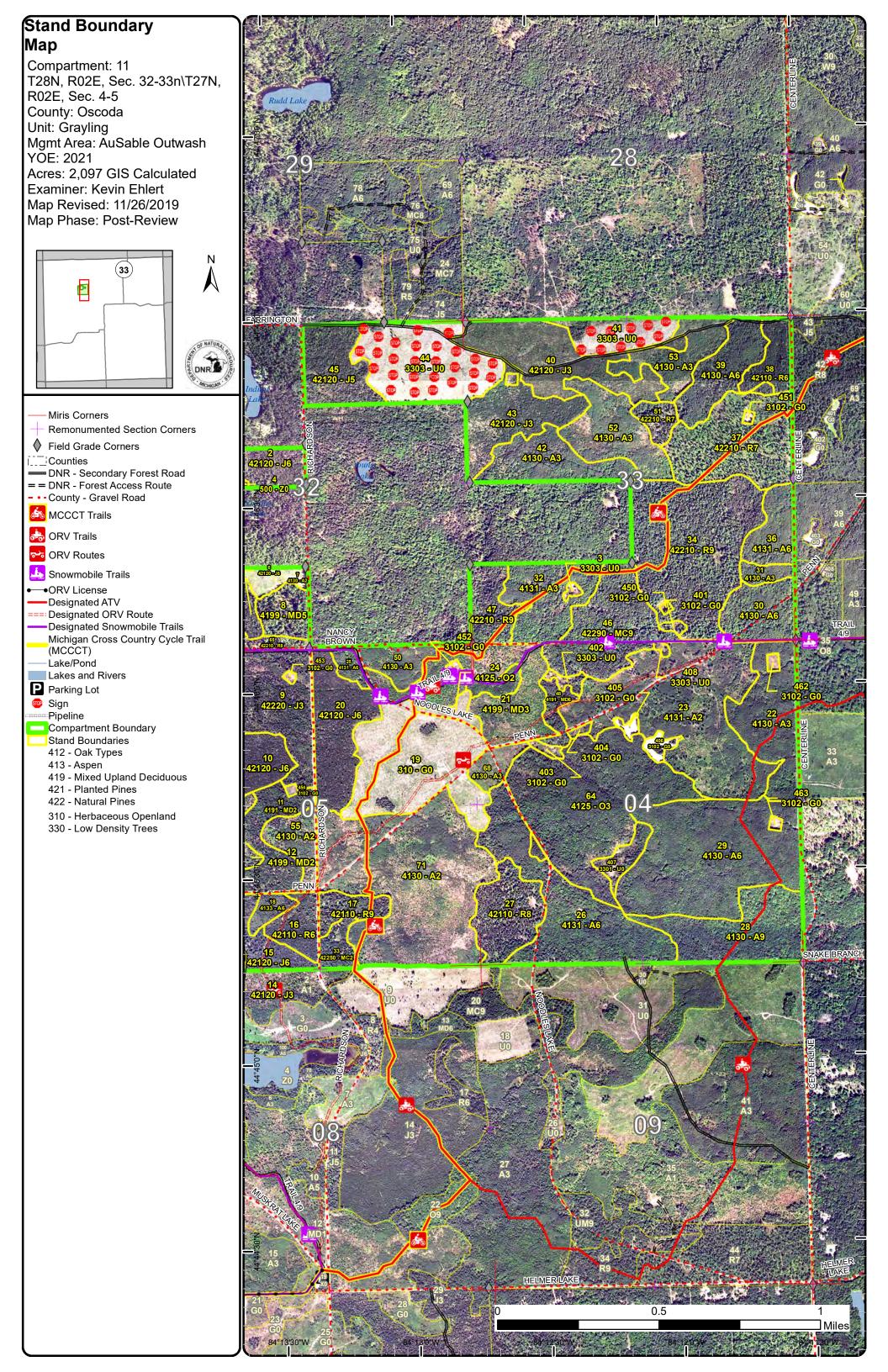
Base feature information, stand boundaries, cover types, and numbers Proposed treatments
Site condition boundaries
Details on the road access system

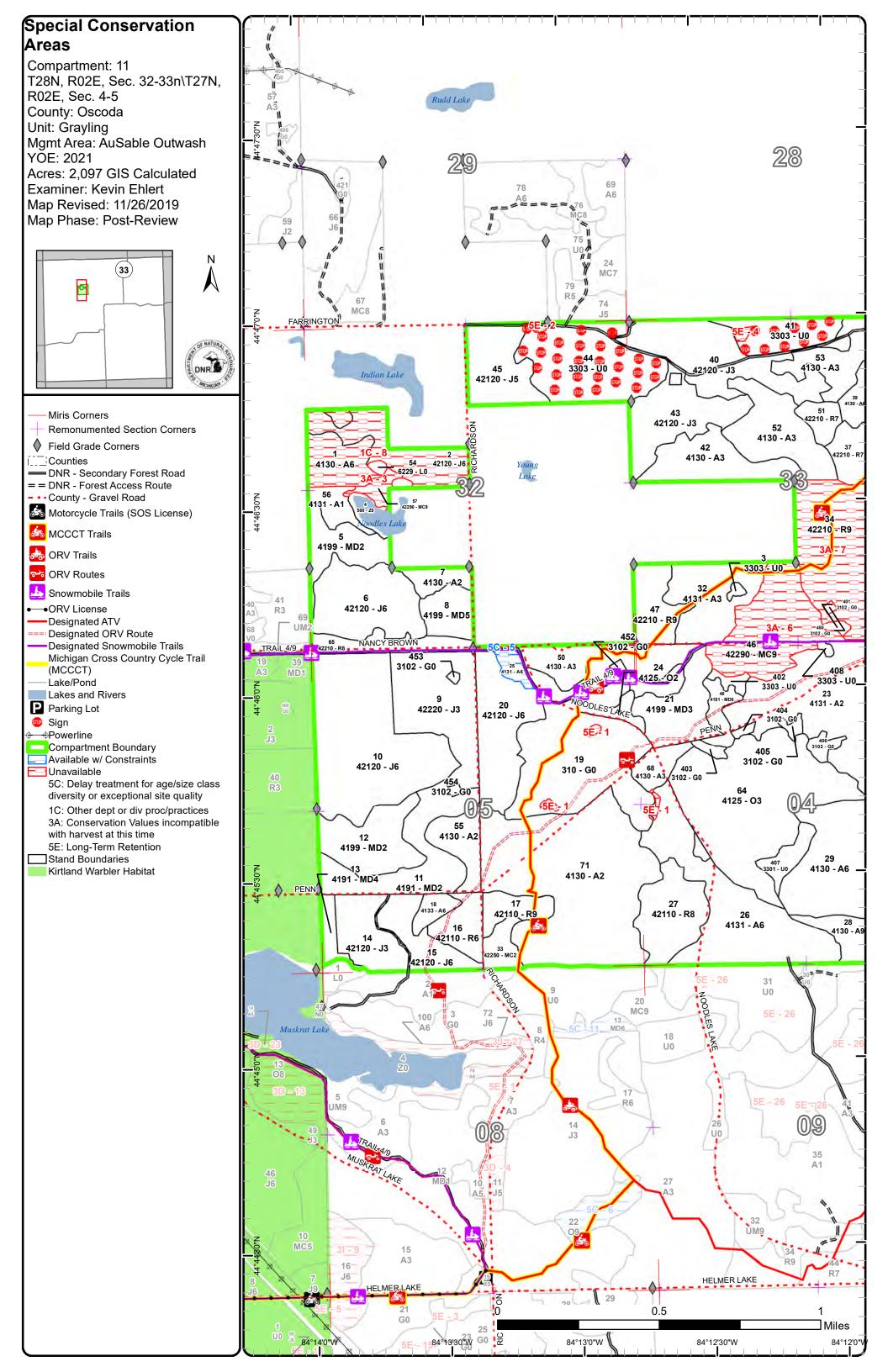


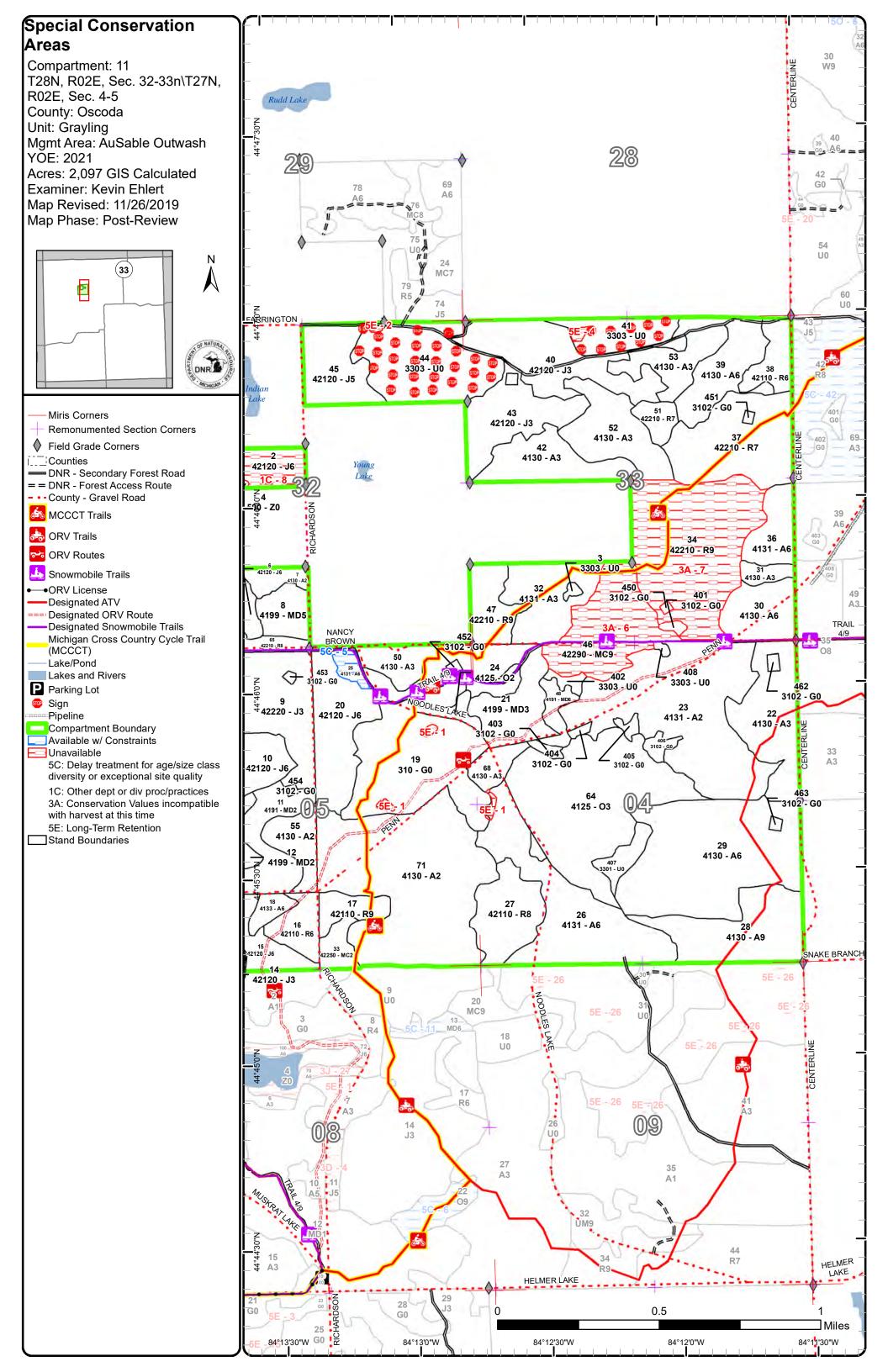












Grayling Mgt. Unit

Compartment 11 Year of Entry 2021

Kevin Ehlert : Examiner

Age Class

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Aspen	0	28	346	117	237	30	75	0	0	0	0	0	0	0	0	0	0	0	833	,
Herbaceous Openland	92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	92	
Jack Pine	0	0	54	88	293	0	0	0	0	0	0	0	0	0	0	0	0	0	435	
Low-Density Trees	93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93	
Lowland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Mixed Upland Deciduous	0	0	93	42	43	0	0	9	0	0	0	0	0	0	0	0	0	0	187	
Natural Mixed Pines	0	0	0	9	0	0	0	0	0	0	0	0	0	0	5	0	0	51	65	
Oak	0	5	0	0	104	0	0	0	0	0	0	0	0	0	0	0	0	0	109	
Red Pine	0	0	0	0	30	0	14	8	91	20	12	0	0	0	0	0	0	98	273	
Water	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	
Total	194	33	493	256	707	30	89	17	91	20	12	0	0	0	5	0	0	149	2096	



Report 2 – Treatment Summary

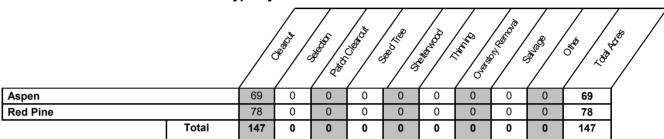
Grayling Mgt. Unit Year of Entry: 2021

Acres of Harvest

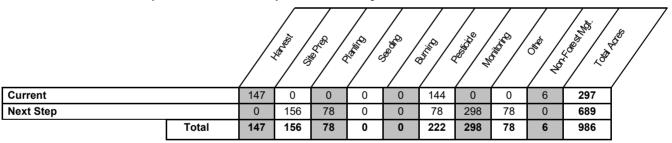
Compartment 11
Total Compartment Acres: 2,097

Commercial Harvest - 147 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Grayling Mgt. Unit Report 3 -- Treatments

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Report 3 -- Treatments



Compartment: 11

Year of Entry: 2021

Treatment Stand Stand BA **Treatment Treatment** Cover Type Acres Size Age Habitat Method Name CoverType Density Age Range Type Objective Structure Cut

Approved Treatments:

19 72011019- 72.4 310 - Herbaceous Nonstocked 0 Pesticide ERROR 4211 - Planted Even-Aged No Spray Openland Red Pine

Prescription Release spray to achieve 80% free to grow status for planted red pine. Go around pockets that have little to no competition. Aerial spray

Specs: along with C72-791.

Next Step ; Monitoring, Herbicide Use

Treatments:

Acceptable Well stocked RP

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2019

28 72011028-Cut 50.0 4130 - Aspen Sawtimber 51 111- Harvest Clearcut with 4131 - Aspen, Even-Aged No Well 140 Retention Oak

<u>Prescription</u> Final harvest all species 2" and up except red and white pine over 18" DBH. Follow standard retention guidelines using area based

Specs: retention. Protect the ATV trail that runs through the stand. Include drumming log spec.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Expect a fully stocked stand of aspen with mixed deciduous and scattered red and white pine.

Regen:

Other Consider some of the steeper area in the East half of the stand for retention. PVT line needed on East boundary.

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

 36
 72011036-Cut
 18.8
 4131 - Aspen, Oak
 Poletimber
 51
 111 Harvest
 Clearcut with
 413 - Aspen
 Even-Aged
 No

 Well
 140
 Retention

Prescription Final harvest stand. Follow standard retention guidelines using area based retention. Include drumming log spec. Protect the pipeline that

<u>Specs:</u> runs parallel to Centerline Road.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A fully stocked stand of aspen and mixed associated species including oak and maple.

Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Treatments: Monitoring, Artificial Regen(3yr); Other, Pre-Commercial Thinning - Hand

Acceptable A fully stocked stand of planted red pine.

Regen:
Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

Grayling Mgt. Unit Report 3 -- Treatments Compartment: 11 S Year of Entry: 2021 t а **Treatment** Acres Stand Size Stand BA **Treatment Treatment** Cover Type Age Habitat n Method Objective Name CoverType Density Age Range Type Structure Cut d 405 72011405-NF 2.1 3102 - Grass Nonstocked NonForestMgt Other - Specify 3102 - Grass No Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing, brushing, tree and shrub planting, Rx burning and herbicide application. Specs: Next Step Treatments: Acceptable Regen: **Other** Comment: Site Condition Proposed Start Date: 10/1 /2020 406 72011406-NF 3.8 3102 - Grass Nonstocked NonForestMgt Other - Specify 3102 - Grass No Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing, Specs: brushing, tree and shrub planting, Rx burning and herbicide application. Next Step Treatments: Acceptable Regen:

Total Treatment 297.1 Acreage Proposed:

Proposed Start Date: 10/1 /2020

Other Comment:
Site Condition

Compartment: 11

Grayling Mgt. Unit

Kevin Ehlert : Examiner Year of Entry: 2021

Availa	ability for	Managemer	nt					
Total	Acres	Acres Avail	Acres		Domina	nt Site	e Cond	ditions
Acres	Available	With Condition	Not Available		5C	1C	3A	5E
832	804	6	23	Aspen	6	22	0	1
92	91	0	2	Herbaceous Openland				2
435	404	0	32	Jack Pine		32	0	
93	91	0	2	Low-Density Trees				2
1	1	0	0	Lowland Shrub			0	
186	186	0	0	Mixed Upland Deciduous				
65	9	0	56	Natural Mixed Pines			56	
110	110	0	0	Oak				
274	176	0	98	Red Pine	0		98	
8	8	0	0	Water			0	
2,097	1,879	6	212	Total Forested Acres	6	53	154	5
	90%	0%	10%	Relative Percent				

*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
2	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
3	Unavailable	3A: Conservation Values incompatible with harvest at this time	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Stand adds structur	al diversity to the area adjace	nt to Nood	dles Lake.			
10010	0040 40:42:22 AM Dow	4.60					TONELL

Report 4 – Site Conditions

Grayling Mgt. Unit
Kevin Ehlert: Examiner

4	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Delay harvest and	treat with stand 20. This will allo	ow stand:	s 21 and 50 to advance n	nore before harvesting this	small stand adjacent to sr	owmobile trail.
6	Unavailable	3A: Conservation Values incompatible with harvest at this time	51	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
7	Unavailable	3A: Conservation Values incompatible with harvest at this time	98	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
8	Unavailable	1C: Other dept or div proc/practices	53	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

Mgt. Unit

Compartment: #Type! Year of Entry:



Report 5 - PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				

Grayling Mgt. Unit Compartment: 11 Year of Entry 2021





Report 6 - EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

Conservation Area	Туре	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and coor U.S. Fish and Wildlife service for the recovery of threatened an 365, Endangered Species Protection, of the Natural Resources PA 451, and the Federal Endangered Species Act of 1973. This species plans in various stages of review. As of now only two elever Habitat.	d endangered species, as governed by Part and Environmental Protection Act, 1994 s is an active program, with proposed



Stan	d Level 4 C	Level 4 Cover Type		Level 4 Cover Type	\$	Size De	ensity	Acres	Stand Age	BA Range	Managed S	ite	General Comments				
1	4130 Canopy Species Bigtooth Aspen	- Aspen % Cover			er Well Age 35	21.6	35	81-110	N/A		Mixed stand. Multiple aspen clones with pockets that are more open with oak or mixed conifer. Southwest and Southeast corners contain some larger log size red and white pines that were retained in previous harvest.						
2	42120 - Pla	nted Jack F	Pine P	oletimb	er Well	31.8	33	51-80	N/A		Planted jack pine with scattered pin oak, cherry and some saw size red						
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	pine and white pine left behind during previous harvest. The jack pine is in the low end of the pole category, averaging 1-2 sticks. Basal area will						
	Jack Pine	91	Pole/Sapling	5	33	Blad	ck Cherry	Low	5 - 10 feet	Sapling	increase as more of the stems become merchantable size.						
3	3303 - Mixed L	ow Density	Trees	Nonst	ocked	1.2	0		No		Open area within stand 32 located in a kettle depression. Low density scattered jack and white pine. There are a few of these areas nearby within stand 32, but this is the only one large enough to meet mapping standards. Grown over road runs near west end of this opening.						
4	500	- Water		Nonst	ocked	7.9			No		A portion of Noodles Lake. Beaver dam in the middle. There is a lot of beaver activity in adjacent stand 5 coming from the lake.						
5	4199 - Other Mixe	ed Upland D	eciduous Sa	apling	Medium	21.2	33	Immature	N/A		Stand is a mix of aspen, oak, and red maple that is just below threshold						
	Canopy Species	% Cover	Size Class	DBH	l Age						for pole size class. There are also some scattered large log size red and white pine that were retained in previous harvest.						
	Northern Pin Oak	30	Sapling/Pole	4							write pine that were retained in previous harvest.						
	Red Pine	8	Log	13													
	Bigtooth Aspen	35	Sapling/Pole	4	33												
	Red Maple	25	Sapling/Pole	4													
6	42120 - Pla	nted Jack F	Pine P	oletimb	er Well	44.7	34	51-80	N/A		Stand of planted jack pine that is in process of transitioning to pole						
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	class. Scattered red pine residual from previous harvest throughout. BA will increase as more of the jack pine reaches merchantable size.						
	Jack Pine	90	Pole/Sapling	5	34	Blad	ck Cherry	Low	5 - 10 feet	Sapling	will increase as more of the jack pine reaches merchantable size.						
	Red Pine	10	Log	12													
7	4130	- Aspen	Sa	apling	Medium	8.8	4	Immature	N/A		Stand was harvested in August of 2015. No chipping of limbs and tops <						
	Canopy Species	% Cover	Size Class	DBH	l Age						2" allowed. Coming back mostly to Aspen. Some RM and Oak which are being affected by heavy browse. Passes regen. Aspen is ~ 6' tall,						
	Bigtooth Aspen	90	Sapling	1	4						RM / O are 2-4'						
	Red Maple	7	Sapling	1													
8	4199 - Other Mixe	ed Upland D	eciduous Pol	etimbe	r Mediur	n 15.0	33	51-80	N/A		Stand is a mixture of oak, aspen, jack pine, and scattered RP logs. East						
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	side of stand borders Richardson Road. A more open area toward the middle of the stand appears to have been an old landing.						
	Northern Pin Oak	30	Pole/Sapling	5		Re	d Maple	Low	5 - 10 feet	Sapling	The state of the s						
	Red Maple	35	Pole/Sapling	5	33	Blad	ck Cherry	Low	< 5 feet	Sapling							
	Bigtooth Aspen	20	Pole/Sapling	5		Northe	ern Pin Oak	Low	5 - 10 feet	Sapling							
	Jack Pine	10	Pole	7													



Stand	Level 4 Co	ver Type	ı	Size De	nsity	Acres	Stand Age	BA Range	Managed Site	General Comments
	42220 - Natu Canopy Species Jack Pine Red Pine Northern Pin Oak Quaking Aspen		Pine r Size Class Sapling/Pole Log/Pole Sapling/Pole Sapling/Pole	3 12 3	Age 26 69	51.3	26	1-50	N/A	Stand is mostly immature planted jack pine. There are some scattered log size red pine. The North end has a larger component of the log/pole size red and jack pine along Nancy Brown Road and Trail 4/9. Merchantable Red Pine was left along with small Jack Pine, when stand was cut in 1992. Cut resulted in mixed jack pine and oak regeneration. There are a couple small inclusions of aspen in the stand. East side of stand borders Richardson Road.
10	42120 - Plan	ted Jack l	Pine I	Poletimb	er Well	98.8	37	51-80	N/A	Planted jack pine stand. A few scattered red pine residual from previous
	Canopy Species Jack Pine	% Cover	r Size Class Pole/Sapling		Age 37					harvest. OPIC - FMD: Contains MSU research spacing plots for white pine weevil study on jack pine.
11	4191 - Mixed Upla Co	nd Decidu nifer	uous with	Sapling N	/ledium	41.8	26	Immature	N/A	Stand was harvested in 1993. Immature stand. Mix of Jack Pine(natural) with Oak regeneration also scattered throughout stand. Aspen, Cherry
	Canopy Species	% Cover	r Size Class	DBH	Age					and some Red Pine/Jack Pine pole timber scattered throughout stand(10-20BA).
	Jack Pine	35	Sapling/Pole		26					10 2021 ().
	Quaking Aspen	25	Sapling	2						
	Red Maple	15	Sapling	2						
-										
12	4199 - Other Mixed			Sapling N		32.7	15	Immature	N/A	Mixed stand. Contains scattered clones of aspen, with oak, red maple, cherry and jack pine filling in the open spaces. overall, it is a patchwork
<u>-</u> _	Canopy Species	% Cover	r Size Class	DBH	/ledium	32.7	15	Immature	N/A	cherry and jack pine filling in the open spaces. overall, it is a patchwork of open grass/shrub mixed in with immature trees. The aspen is 20-30'
	Canopy Species Quaking Aspen	% Cover 25	Size Class Sapling	DBH	Age	32.7	15	Immature	N/A	cherry and jack pine filling in the open spaces. overall, it is a patchwork of open grass/shrub mixed in with immature trees. The aspen is 20-30' tall, ok is 10-20' tall, and jp is 10-15' tall. 2009 Notes: Stand is an
	Canopy Species Quaking Aspen Northern Pin Oak	% Cover 25 30	Sapling Sapling	DBH 2 1		32.7	15	Immature	N/A	cherry and jack pine filling in the open spaces. overall, it is a patchwork of open grass/shrub mixed in with immature trees. The aspen is 20-30' tall, ok is 10-20' tall, and jp is 10-15' tall. 2009 Notes: Stand is an immature Oak, Jack Pine and Aspen stand that is not fully stocked. Old notes: Timber sale # 72-047-01-01 (Richardson Road Jack Pine). Cut by
	Canopy Species Quaking Aspen Northern Pin Oak Jack Pine	% Cover 25 30 10	Sapling Sapling Sapling Sapling	DBH 2 1 2	Age	32.7	15	Immature	N/A	cherry and jack pine filling in the open spaces. overall, it is a patchwork of open grass/shrub mixed in with immature trees. The aspen is 20-30' tall, ok is 10-20' tall, and jp is 10-15' tall. 2009 Notes: Stand is an immature Oak, Jack Pine and Aspen stand that is not fully stocked. Old notes: Timber sale # 72-047-01-01 (Richardson Road Jack Pine). Cut by T. R. Timber in 2004. An FTP has been submitted to artificially
	Canopy Species Quaking Aspen Northern Pin Oak	% Cover 25 30	Sapling Sapling	DBH 2 1	Age	32.7	15	Immature	N/A	cherry and jack pine filling in the open spaces. overall, it is a patchwork of open grass/shrub mixed in with immature trees. The aspen is 20-30' tall, ok is 10-20' tall, and jp is 10-15' tall. 2009 Notes: Stand is an immature Oak, Jack Pine and Aspen stand that is not fully stocked. Old notes: Timber sale # 72-047-01-01 (Richardson Road Jack Pine). Cut by
	Canopy Species Quaking Aspen Northern Pin Oak Jack Pine Red Maple Black Cherry 4191 - Mixed Upla	% Cover 25 30 10 20 15	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	DBH 2 1 2 1	Age 15	32.7	15	Immature	N/A	cherry and jack pine filling in the open spaces. overall, it is a patchwork of open grass/shrub mixed in with immature trees. The aspen is 20-30' tall, ok is 10-20' tall, and jp is 10-15' tall. 2009 Notes: Stand is an immature Oak, Jack Pine and Aspen stand that is not fully stocked. Old notes: Timber sale # 72-047-01-01 (Richardson Road Jack Pine). Cut by T. R. Timber in 2004. An FTP has been submitted to artificially regenerate any areas that do not regenerate naturally. 11/24/2004 mm Ol Stand Year Origin was 1985. Low density stand of pin oak, jack pine, cherry and red maple. South end adjacent to muskrat lake. Lots of open
	Canopy Species Quaking Aspen Northern Pin Oak Jack Pine Red Maple Black Cherry 4191 - Mixed Upla	% Cover 25 30 10 20 15 nd Decidunifer	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	DBH 2 1 2 1 1 1 Poletimbe	Age 15					cherry and jack pine filling in the open spaces. overall, it is a patchwork of open grass/shrub mixed in with immature trees. The aspen is 20-30' tall, ok is 10-20' tall, and jp is 10-15' tall. 2009 Notes: Stand is an immature Oak, Jack Pine and Aspen stand that is not fully stocked. Old notes: Timber sale # 72-047-01-01 (Richardson Road Jack Pine). Cut by T. R. Timber in 2004. An FTP has been submitted to artificially regenerate any areas that do not regenerate naturally. 11/24/2004 mm Ol Stand Year Origin was 1985. Low density stand of pin oak, jack pine, cherry and red maple. South end adjacent to muskrat lake. Lots of open areas in this stand. Old notes indicate that it was possibly not planted
	Canopy Species Quaking Aspen Northern Pin Oak Jack Pine Red Maple Black Cherry 4191 - Mixed Upla	% Cover 25 30 10 20 15 nd Decidunifer	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Saucus with	DBH 2 1 2 1 1 1 Poletimbo	Age 15 er Poor					cherry and jack pine filling in the open spaces. overall, it is a patchwork of open grass/shrub mixed in with immature trees. The aspen is 20-30' tall, ok is 10-20' tall, and jp is 10-15' tall. 2009 Notes: Stand is an immature Oak, Jack Pine and Aspen stand that is not fully stocked. Old notes: Timber sale # 72-047-01-01 (Richardson Road Jack Pine). Cut by T. R. Timber in 2004. An FTP has been submitted to artificially regenerate any areas that do not regenerate naturally. 11/24/2004 mm Ol Stand Year Origin was 1985. Low density stand of pin oak, jack pine, cherry and red maple. South end adjacent to muskrat lake. Lots of open
13	Canopy Species Quaking Aspen Northern Pin Oak Jack Pine Red Maple Black Cherry 4191 - Mixed Upla Col	% Cover 25 30 10 20 15 15 16 Cover 25 35	Sapling	DBH 2 1 2 1 1 1 Poletimber DBH 5	Age 15 er Poor					cherry and jack pine filling in the open spaces. overall, it is a patchwork of open grass/shrub mixed in with immature trees. The aspen is 20-30' tall, ok is 10-20' tall, and jp is 10-15' tall. 2009 Notes: Stand is an immature Oak, Jack Pine and Aspen stand that is not fully stocked. Old notes: Timber sale # 72-047-01-01 (Richardson Road Jack Pine). Cut by T. R. Timber in 2004. An FTP has been submitted to artificially regenerate any areas that do not regenerate naturally. 11/24/2004 mm Ol Stand Year Origin was 1985. Low density stand of pin oak, jack pine, cherry and red maple. South end adjacent to muskrat lake. Lots of open areas in this stand. Old notes indicate that it was possibly not planted
13	Canopy Species Quaking Aspen Northern Pin Oak Jack Pine Red Maple Black Cherry 4191 - Mixed Upla Cor Canopy Species Black Cherry	% Cover 25 30 10 20 15 15 16 Miles 25 25 16 Miles 25 1	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling Puous with Size Class Pole/Sapling	DBH 2 1 2 1 1 1 Poletimber DBH 5	15 er Poor					cherry and jack pine filling in the open spaces. overall, it is a patchwork of open grass/shrub mixed in with immature trees. The aspen is 20-30' tall, ok is 10-20' tall, and jp is 10-15' tall. 2009 Notes: Stand is an immature Oak, Jack Pine and Aspen stand that is not fully stocked. Old notes: Timber sale # 72-047-01-01 (Richardson Road Jack Pine). Cut by T. R. Timber in 2004. An FTP has been submitted to artificially regenerate any areas that do not regenerate naturally. 11/24/2004 mm Ol Stand Year Origin was 1985. Low density stand of pin oak, jack pine, cherry and red maple. South end adjacent to muskrat lake. Lots of open areas in this stand. Old notes indicate that it was possibly not planted
13	Canopy Species Quaking Aspen Northern Pin Oak Jack Pine Red Maple Black Cherry 4191 - Mixed Upla Coi Canopy Species Black Cherry	% Cover 25 30 10 20 15 15 16 Cover 25 35	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling Pole/Sapling Sapling	DBH 2 1 2 1 1 1 1 Poletimber 5 7 6	15 er Poor					cherry and jack pine filling in the open spaces. overall, it is a patchwork of open grass/shrub mixed in with immature trees. The aspen is 20-30' tall, ok is 10-20' tall, and jp is 10-15' tall. 2009 Notes: Stand is an immature Oak, Jack Pine and Aspen stand that is not fully stocked. Old notes: Timber sale # 72-047-01-01 (Richardson Road Jack Pine). Cut by T. R. Timber in 2004. An FTP has been submitted to artificially regenerate any areas that do not regenerate naturally. 11/24/2004 mm Ol Stand Year Origin was 1985. Low density stand of pin oak, jack pine, cherry and red maple. South end adjacent to muskrat lake. Lots of open areas in this stand. Old notes indicate that it was possibly not planted
13	Canopy Species Quaking Aspen Northern Pin Oak Jack Pine Red Maple Black Cherry 4191 - Mixed Upla Col Canopy Species Black Cherry Northern Pin Oak Jack Pine	% Cover 25 30 10 20 15	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling Pole/Sapling Pole/Sapling Pole/Sapling	DBH 2 1 2 1 1 1 1 Poletimber 5 7 6	15 er Poor Age 34					cherry and jack pine filling in the open spaces. overall, it is a patchwork of open grass/shrub mixed in with immature trees. The aspen is 20-30' tall, ok is 10-20' tall, and jp is 10-15' tall. 2009 Notes: Stand is an immature Oak, Jack Pine and Aspen stand that is not fully stocked. Old notes: Timber sale # 72-047-01-01 (Richardson Road Jack Pine). Cut by T. R. Timber in 2004. An FTP has been submitted to artificially regenerate any areas that do not regenerate naturally. 11/24/2004 mm Ol Stand Year Origin was 1985. Low density stand of pin oak, jack pine, cherry and red maple. South end adjacent to muskrat lake. Lots of open areas in this stand. Old notes indicate that it was possibly not planted with stand 14 to serve as a fuel break.
13	Canopy Species Quaking Aspen Northern Pin Oak Jack Pine Red Maple Black Cherry 4191 - Mixed Upla Cor Canopy Species Black Cherry Northern Pin Oak Jack Pine Quaking Aspen	% Cover 25 30 10 20 15	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling Pole/Sapling Pole/Sapling Pole/Sapling	DBH 2 1 1 1	15 er Poor Age 34	6.9	34	1-50	N/A	cherry and jack pine filling in the open spaces. overall, it is a patchwork of open grass/shrub mixed in with immature trees. The aspen is 20-30' tall, ok is 10-20' tall, and jp is 10-15' tall. 2009 Notes: Stand is an immature Oak, Jack Pine and Aspen stand that is not fully stocked. Old notes: Timber sale # 72-047-01-01 (Richardson Road Jack Pine). Cut by T. R. Timber in 2004. An FTP has been submitted to artificially regenerate any areas that do not regenerate naturally. 11/24/2004 mm Ol Stand Year Origin was 1985. Low density stand of pin oak, jack pine, cherry and red maple. South end adjacent to muskrat lake. Lots of open areas in this stand. Old notes indicate that it was possibly not planted with stand 14 to serve as a fuel break.

Grayling Mgt. Unit



Stand	d Level 4 C	Level 4 Cover Type Size D		ize Density	Acres	Stand Age B	BA Range	Managed S	ite	General Comments
15	42120 - Plai Canopy Species Jack Pine Northern Pin Oak		Size Class Pole/Sapling Sapling/Pole	DBH Age 5 36 4	20.6	36	1-50	N/A		OI Stand Year Origin was 1983. planted jack pine with scattered oak, aspen mixed in. Also contains scattered super canopy rp. many stems just under pole class. ~2.5 acre inclusion of log size RP towards center of stand.
16	42110 - Pla	inted Red P	ine Po	oletimber Well	15.1	36	141-170	N/A		planted red pine. some q aspen scattered trpughout. Super canopy rp is
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Can	opy Species	Density	Avg. Height	Size	about 15 sqft/ac. A few dying jp poles. low density oak in sub canopy, otherwise its mostly open. OI Stand Year Origin was 1983.
	Red Pine	90	Pole	7 36	Northe	rn Pin Oak	Low	10 - 20 feet	Sapling	, , , , , , , , , , , , , , , , , , , ,
					Black	k Cherry	Trace	5 - 10 feet	Sapling	
17	42110 - Pla	inted Red P	ine Sa	awtimber Well	11.9	99	141-170	N/A		Understory is a mix of JP which established after sale of 1992, and
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Can	opy Species	Density	Avg. Height	Size	advanced Oak regen. Some more open pockets throughout. 30-40 sqft/ac of 20-25" RP throughout much of the stand(aged 135-145). A
	Red Pine	84	Log/XLog	15 99	Northe	rn Pin Oak	Medium	5 - 10 feet	Sapling	few sub merch aspen clones. BA as high as 250 in pockets.
	Bigtooth Aspen	16	Pole/Sapling	5	Jac	k Pine	Low	10 - 20 feet	Sapling	
					Bigtoc	oth Aspen	Low	10 - 20 feet	Sapling	
18	4133 - Aspe	en, Mixed P	ine Po	oletimber Well	6.5	36	81-110	N/A		Large pocket of Aspen over topped Red Pine plantation.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Can	opy Species	Density	Avg. Height	Size	
	Quaking Aspen	60	Pole/Sapling	6 36	Northe	rn Pin Oak	Low	10 - 20 feet	Sapling	
	Red Pine	40	Pole/Sapling	5	Black	k Cherry	Low	5 - 10 feet	Sapling	
19	310 - Herbac	ceous Open	land	Nonstocked	75.8	0		4211 - Planted I	Red Pine	10/2018: Regen check results- 12.7% mortality, 818 trees per acre of
					Sub-Can	opy Species	Density	Avg. Height	Size	Red pine, average height is 2.2'. 60% Free to grow. Stand was
						. D:	Madium			chopped/frenched in 2015 and planted in 2016. Release spray done in
					Re	d Pine	Medium	< 5 feet	Seeding	chopped/trenched in 2015 and planted in 2016. Release spray done in September 2017 with skidder. Appears that spray was most effective
						ng Aspen	Low	< 5 feet	Seeding Sapling	September 2017 with skidder. Appears that spray was most effective against oak. Lots of cherry and aspen were not affected due to skips, or
					Quaki					September 2017 with skidder. Appears that spray was most effective
					Quaki Cher	ng Aspen	Low	< 5 feet	Sapling	September 2017 with skidder. Appears that spray was most effective against oak. Lots of cherry and aspen were not affected due to skips, or
					Quaki Cher Jac	ng Aspen ry (spp.)	Low Low	< 5 feet < 5 feet	Sapling Sapling	September 2017 with skidder. Appears that spray was most effective against oak. Lots of cherry and aspen were not affected due to skips, or being sheltered from contact with herbicide. OPIC - FMD: 2009 Notes: Jack Pine stand with some scattered Oak, Aspen and Red Pine. Recommend final harvest and replant to Jack
					Quaki Cher Jac	ng Aspen ry (spp.) k Pine	Low Low Trace	< 5 feet < 5 feet < 5 feet	Sapling Sapling Sapling	September 2017 with skidder. Appears that spray was most effective against oak. Lots of cherry and aspen were not affected due to skips, or being sheltered from contact with herbicide. OPIC - FMD: 2009 Notes: Jack Pine stand with some scattered Oak,
20	42120 - Pla	nted Jack P	ine Po	oletimber Well	Quaki Cher Jac	ng Aspen ry (spp.) k Pine	Low Low Trace	< 5 feet < 5 feet < 5 feet	Sapling Sapling Sapling	September 2017 with skidder. Appears that spray was most effective against oak. Lots of cherry and aspen were not affected due to skips, or being sheltered from contact with herbicide. OPIC - FMD: 2009 Notes: Jack Pine stand with some scattered Oak, Aspen and Red Pine. Recommend final harvest and replant to Jack Pine. Old notes: "Hold until 2011 then CC and plant or seed." Stand harvested under 72-028-11-01, First Sale Jack Pine, will be replanted to Jack pine under FTP C72-752. Two Retention Islands were left in this stand. Variance approved to change M.O. to RP, incorporate stand 69, and do addn'l site prep. C72-752 chopped & trenched in 2015 and planted in 2016. Yr 1 regen survey found 793 RP & 2,419 A/O/C per acre. Release herbicide applied with skidder in September 2017.
20	42120 - Pla Canopy Species		rine Po	oletimber Well	Quaki Cher Jac Oak	ng Aspen ry (spp.) kk Pine k (spp.)	Low Low Trace Low	< 5 feet < 5 feet < 5 feet < 5 feet	Sapling Sapling Sapling	September 2017 with skidder. Appears that spray was most effective against oak. Lots of cherry and aspen were not affected due to skips, or being sheltered from contact with herbicide. OPIC - FMD: 2009 Notes: Jack Pine stand with some scattered Oak, Aspen and Red Pine. Recommend final harvest and replant to Jack Pine. Old notes: "Hold until 2011 then CC and plant or seed." Stand harvested under 72-028-11-01, First Sale Jack Pine, will be replanted to Jack pine under FTP C72-752. Two Retention Islands were left in this stand. Variance approved to change M.O. to RP, incorporate stand 69, and do addn'l site prep. C72-752 chopped & trenched in 2015 and planted in 2016. Yr 1 regen survey found 793 RP & 2,419 A/O/C per acre. Release herbicide applied with skidder in September 2017.



Stand	Level 4 Co	Cover Type		Size Density		Acres Stand Age BA Range			Managed Site		General Comments		
21	4199 - Other Mixe	d Upland D	eciduous	Sapling	g Well	59.7	15	Immature	N/A		Immature oak/mixed deciduous stand regenerated from 2004 harvest. Two larger pockets of aspen regeneration were delineated out as stand		
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	50. Contains some deep frost pocket like holes. Old Notes: Mix of C		
	Northern Pin Oak	40	Sapling	1	15	WI	nite Pine	Low	< 5 feet	Sapling	Aspen both declining in health. Manage for both. Consult with Bielecki		
	Bigtooth Aspen	25	Sapling	1							to review for possible frost pocket concerns. Stand was harvested in		
	Red Maple	30	Sapling	1							spring of 2004 (Nancy Brown Road Oak 720370101)		
22	4130	- Aspen		Sapling	y Well	44.8	27	Immature	N/A		Immature Aspen stand. Stand's east side borders Centerline Road.		
	Canopy Species	% Cover	Size Class	DBH	I Age						MCCCT Trail runs through stand. A few super canopy pin oak near Centerline Road.		
	Bigtooth Aspen	50	Sapling/Pole	9 4	27						Centenine Road.		
	Quaking Aspen	25	Sapling/Pole	3									
	Red Maple	15	Sapling	3									
Bla	ck/Red (Hybrid) Oak	10	Sapling	3									
	,		, 0			1100	10	1.50			0, 1; , , , , , , , , , , , , , , , , , ,		
23		spen, Oak		Sapling I	,	112.3	16	1-50	N/A		Stand is an oak shelterwood that was cut in summer of 2003. Timber sale #72-039-01-01 Nancy Brown Shelterwood. The residual oak seems		
	Canopy Species		Size Class		I Age						to be declining and is 108 years old. Residual is heaviest along the road		
	Quaking Aspen	45	Sapling	2	16						and ATV trail. The regen from this harvest is a mixture of aspen clones, pin oak, and red maple with a trace of scattered jack and white pine.		
	Northern Pin Oak	10	Log	14	109						pin oak, and red maple with a trace of scattered jack and write pine.		
	Northern Pin Oak	25	Sapling	1									
	Red Maple	20	Sapling	1									
24	4125 - Blac	k, N. Pin O	ak S	Sapling I	Medium	5.3	5	Immature	N/A		Cut in the Spring/Summer of 2014. Regen is mostly in the 3-5' tall		
	Canopy Species	% Cover	Size Class	DBH	l Age						range. Some browse occurring. Stand harvested under 72-028-11-01, this portion of original stand 19 was not trenched or planted.		
	Northern Pin Oak	75	Sapling	1	5						and portion or original static to trace not tronollog or plantog.		
	Red Maple	20	Sapling	1									
25	4131 - A	spen, Oak	ı	Poletimb	er Well	5.7	54	81-110	N/A		Stand was previously part of stand 21, but was not cut in the 2004		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	harvest. Old notes said to leave for diversity.		
	Quaking Aspen	60	Pole/Log	8	54	Re	d Maple	Medium	10 - 20 feet	Sapling			
	Northern Pin Oak	25	Log	14		WI	nite Pine	Trace	5 - 10 feet	Sapling			
	Red Maple	15	Pole/Log	8	-						1		
26	4131 - A	spen, Oak	ı	Poletimb	er Well	74.2	36	1-50	N/A		Stand is a mix of pole size aspen clones and mostly sub merchantable		
	Canopy Species	% Cover	Size Class	DBH	I Age						pockets of oak and red maple that are present where the aspen didn't fill in. The North boundary East of Noodles Lake road is adjacent to a steep		
	Quaking Aspen	50	Pole/Sapling	9 6	36						slope down into stand 64, and eventually to stand 407. A couple of old		
	Red Maple	25	Sapling/Pole	9 4							access routes run through the stand. Some more mature aspen along		
Bla	ck/Red (Hybrid) Oak	25	Sapling/Pole								N/E boundary where difficult to access with slope. Fuelwood harvest records show that most of the stand was cut between 1981 and 1983. Al		
											deciduous trees with stump diameter > 4" were designated for cutting. Some scattered log size red pine throughout, and a 2 acre pocket of red pine logs along Noodles Lake Rd. OPIC - FMD: leave spur open off county roads for parking, keep road closure visble. MUCC wants a record kept of complaint and call on roads.		



Stand	d Level 4 Co	over Type	S	Size Dei	nsity	Acres	Stand Age E	BA Range	Managed S	ite	General Comments				
27	42110 - Plar	nted Red Pi	ne Sav	vtimber	Mediur	m 33.3	72	81-110	N/A		Stand contains mostly red pine with a few white pines. Heavy thinning in past harvest has allowed sub-canopy to become fairly well stocked with				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	oak, red maple, and aspen. Sub canopy heights range from 5-20' but				
	Red Pine	90	Log	14	72	Black/Re	d (Hybrid) Oak	Medium	5 - 10 feet	Sapling	vary throughout the stand. Oak seems more common the further West				
	White Pine	10	Log	14		Re	d Maple	Medium	10 - 20 feet	Sapling	you go. Pine will hold until next YOE, but decision will need to be mad on whether to let this stand convert to hardwood or re-establish red pin after harvest.Old notes: Ground cover consists of Braken Fern over				
						Bigto	oth Aspen	Low	10 - 20 feet	Sapling					
						Wh	nite Pine	Trace	10 - 20 feet	Sapling	Blueberry. Recommend thinning or shelterwood cut. Thin to 90 BA.				
											Old notes: "Remove O & JP. Retain 10 BA of oak scattered throughout the stand. Stand variable density - treat with adjacent stands."				
28	4130 -	- Aspen	S	awtimbe	er Well	50.0	51	111-140	N/A		Mixed stand of aspen and oak. Aspen cut in 1968 leaving oak mast				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	trees. Leave spur open off county roads for parking, keep road closure visible. MUCC wants a record kept of call on road closure. ATV trail				
	Bigtooth Aspen	71	Log/Pole	10	51	Bigto	oth Aspen	Medium	10 - 20 feet	Sapling	through stand.				
Bla	ck/Red (Hybrid) Oak	15	Log	14	94	Re	d Maple	Medium	10 - 20 feet	Sapling					
	Red Maple	10	Log/Pole	10		Black/Re	d (Hybrid) Oak	Low	10 - 20 feet	Sapling					
						Wh	nite Pine	Trace	5 - 10 feet	Sapling					
						E	Beech	Trace	10 - 20 feet	Sapling					
29	4130 -	- Aspen	Po	oletimbe	er Well	108.7	34	111-140	N/A		Nice stand of mixed aspen with some oak and maple mixed in. East end				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	has more bigtooth aspen, quaking more dominant in the West. Nice stand, not yet ready for harvest. Multiple old temporary management				
	Bigtooth Aspen	30	Pole/Sap/Log	7			d (Hybrid) Oak		5 - 10 feet	Sapling	access routes in the stand, mostly grown over. MCCCT Cycle trail runs				
	Quaking Aspen	55	Pole/Sap/Log	6	34	Re	d Maple	Medium	10 - 20 feet	Sapling	through the stand.				
	Red Maple	10	Sapling/Pole	6			·								
30	4420														
	4130 -	- Aspen	Po	oletimbe	er Well	25.6	33	51-80	N/A		Bigtooth aspen stand just above threhold for pole size class. Some				
	Canopy Species	- Aspen % Cover	Size Class	oletimbe DBH			33 nopy Species	51-80 Density	N/A Avg. Height	Size	super-canopy oak, red and white pine. Scattered low density wp, rm, oak				
						Sub-Ca				Size Sapling					
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height		super-canopy oak, red and white pine. Scattered low density wp, rm, oak and beech saps in sub-canopy. Bisected by Penn Rd.OPIC - FMD:				
	Canopy Species Bigtooth Aspen	% Cover 70	Size Class Pole/Sapling	DBH 5	Age	Sub-Ca Wh	nopy Species nite Pine	Density Low Medium	Avg. Height 5 - 10 feet	Sapling	super-canopy oak, red and white pine. Scattered low density wp, rm, oak and beech saps in sub-canopy. Bisected by Penn Rd.OPIC - FMD:				
	Canopy Species Bigtooth Aspen	% Cover 70	Size Class Pole/Sapling	DBH 5	Age	Sub-Cal Wh Re Black/Re	nopy Species nite Pine d Maple	Density Low Medium	Avg. Height 5 - 10 feet 10 - 20 feet	Sapling Sapling	super-canopy oak, red and white pine. Scattered low density wp, rm, oak and beech saps in sub-canopy. Bisected by Penn Rd.OPIC - FMD:				
31	Canopy Species Bigtooth Aspen Red Maple	% Cover 70	Size Class Pole/Sapling Pole/Sapling	DBH 5 5 Sapling	Age 33 Well	Sub-Cal Wh Re Black/Re	nopy Species nite Pine d Maple d (Hybrid) Oak Beech	Low Medium Low	Avg. Height 5 - 10 feet 10 - 20 feet 5 - 10 feet	Sapling Sapling Sapling	super-canopy oak, red and white pine. Scattered low density wp, rm, oak and beech saps in sub-canopy. Bisected by Penn Rd.OPIC - FMD: Stand has a scattering of merchantable species. Immature Aspen stand. Stand borders Centerline Road. Some				
31	Canopy Species Bigtooth Aspen Red Maple	% Cover 70 15 - Aspen	Size Class Pole/Sapling Pole/Sapling	DBH 5 5	Age 33 Well	Sub-Cal Wh Re Black/Re	nopy Species nite Pine d Maple d (Hybrid) Oak Beech	Density Low Medium Low Low Low	Avg. Height 5 - 10 feet 10 - 20 feet 5 - 10 feet 10 - 20 feet	Sapling Sapling Sapling	super-canopy oak, red and white pine. Scattered low density wp, rm, oak and beech saps in sub-canopy. Bisected by Penn Rd.OPIC - FMD: Stand has a scattering of merchantable species.				
31	Canopy Species Bigtooth Aspen Red Maple	% Cover 70 15 - Aspen	Size Class Pole/Sapling Pole/Sapling	DBH 5 5 Sapling	Age 33 Well	Sub-Ca Wh Re Black/Re 6.0 Sub-Ca	nopy Species nite Pine d Maple d (Hybrid) Oak Beech	Density Low Medium Low Low Low	Avg. Height 5 - 10 feet 10 - 20 feet 5 - 10 feet 10 - 20 feet N/A	Sapling Sapling Sapling Sapling	super-canopy oak, red and white pine. Scattered low density wp, rm, oak and beech saps in sub-canopy. Bisected by Penn Rd.OPIC - FMD: Stand has a scattering of merchantable species. Immature Aspen stand. Stand borders Centerline Road. Some				
31	Canopy Species Bigtooth Aspen Red Maple 4130 - Canopy Species	% Cover 70 15 - Aspen % Cover	Size Class Pole/Sapling Pole/Sapling	DBH 5 5 Sapling DBH	Age 33 Well	Sub-Ca Wh Re Black/Re 6.0 Sub-Ca	nopy Species nite Pine d Maple d (Hybrid) Oak Beech 27 nopy Species	Density Low Medium Low Low Low Immature Density	Avg. Height 5 - 10 feet 10 - 20 feet 5 - 10 feet 10 - 20 feet N/A Avg. Height	Sapling Sapling Sapling Sapling Sapling	super-canopy oak, red and white pine. Scattered low density wp, rm, oak and beech saps in sub-canopy. Bisected by Penn Rd.OPIC - FMD: Stand has a scattering of merchantable species. Immature Aspen stand. Stand borders Centerline Road. Some				
31	Canopy Species Bigtooth Aspen Red Maple 4130 - Canopy Species Bigtooth Aspen Red Maple	% Cover 70 15 - Aspen 80	Size Class Pole/Sapling Pole/Sapling Size Class Sapling Sapling	DBH 5 5 Sapling DBH 3	Well Age 27	Sub-Ca Wh Re Black/Re 6.0 Sub-Ca	nopy Species nite Pine d Maple d (Hybrid) Oak Beech 27 nopy Species ed Pine	Density Low Medium Low Low Low Immature Density	Avg. Height 5 - 10 feet 10 - 20 feet 5 - 10 feet 10 - 20 feet N/A Avg. Height	Sapling Sapling Sapling Sapling Sapling	super-canopy oak, red and white pine. Scattered low density wp, rm, oak and beech saps in sub-canopy. Bisected by Penn Rd.OPIC - FMD: Stand has a scattering of merchantable species. Immature Aspen stand. Stand borders Centerline Road. Some scattered wp coming up. Previous stand was mixed deciduous, and final harvested in 1991.				
	Canopy Species Bigtooth Aspen Red Maple 4130 - Canopy Species Bigtooth Aspen Red Maple	**Cover 70 15 15 - Aspen 80 15 spen, Oak	Size Class Pole/Sapling Pole/Sapling Size Class Sapling Sapling	DBH	Well Age 27 Well Age	Sub-Ca Wh Re Black/Re 6.0 Sub-Ca	nopy Species nite Pine d Maple d (Hybrid) Oak Beech 27 nopy Species ed Pine	Density Low Medium Low Low Low Immature Density Low	Avg. Height 5 - 10 feet 10 - 20 feet 5 - 10 feet 10 - 20 feet N/A Avg. Height < 5 feet	Sapling Sapling Sapling Sapling Sapling	super-canopy oak, red and white pine. Scattered low density wp, rm, oak and beech saps in sub-canopy. Bisected by Penn Rd.OPIC - FMD: Stand has a scattering of merchantable species. Immature Aspen stand. Stand borders Centerline Road. Some scattered wp coming up. Previous stand was mixed deciduous, and final harvested in 1991. Bigtooth aspen is the dominant cover type, but also has red maple and				
	Canopy Species Bigtooth Aspen Red Maple 4130 - Canopy Species Bigtooth Aspen Red Maple 4131 - A	**Cover 70 15 15 - Aspen 80 15 spen, Oak	Size Class Pole/Sapling Pole/Sapling Size Class Sapling Sapling	DBH 5 5 5 Sapling DBH 3 2 Sapling	Well Well Well Well	Sub-Ca Wh Re Black/Re 6.0 Sub-Ca	nopy Species nite Pine d Maple d (Hybrid) Oak Beech 27 nopy Species ed Pine	Density Low Medium Low Low Low Immature Density Low	Avg. Height 5 - 10 feet 10 - 20 feet 5 - 10 feet 10 - 20 feet N/A Avg. Height < 5 feet	Sapling Sapling Sapling Sapling Sapling	super-canopy oak, red and white pine. Scattered low density wp, rm, oak and beech saps in sub-canopy. Bisected by Penn Rd.OPIC - FMD: Stand has a scattering of merchantable species. Immature Aspen stand. Stand borders Centerline Road. Some scattered wp coming up. Previous stand was mixed deciduous, and final harvested in 1991.				
32	Canopy Species Bigtooth Aspen Red Maple 4130 - Canopy Species Bigtooth Aspen Red Maple 4131 - A	**Cover 70 15 15 - Aspen 80 15 spen, Oak **Cover Cover Cov	Size Class Pole/Sapling Pole/Sapling Size Class Sapling Sapling Size Class	DBH 5 5 5 Sapling DBH 3 2 Sapling DBH DBH	Well Age 27 Well Age	Sub-Ca Wh Re Black/Re 6.0 Sub-Ca	nopy Species nite Pine d Maple d (Hybrid) Oak Beech 27 nopy Species ed Pine	Density Low Medium Low Low Low Immature Density Low	Avg. Height 5 - 10 feet 10 - 20 feet 5 - 10 feet 10 - 20 feet N/A Avg. Height < 5 feet	Sapling Sapling Sapling Sapling Sapling	super-canopy oak, red and white pine. Scattered low density wp, rm, oak and beech saps in sub-canopy. Bisected by Penn Rd.OPIC - FMD: Stand has a scattering of merchantable species. Immature Aspen stand. Stand borders Centerline Road. Some scattered wp coming up. Previous stand was mixed deciduous, and final harvested in 1991. Bigtooth aspen is the dominant cover type, but also has red maple and				



Stand	Stand Level 4 C		••	Size Density		Acres Stand Age BA Range		BA Range	Managed S	ite	General Comments		
33	42250 -	Pine, Oak	Sa	pling N	/ledium	9.1	27	Immature	N/A		Stand was cut in 1992. Stand is and mix of J2/O2. Some oak poles, but most of the stand still sub-merchantable.		
C	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	most of the stand still sub-merchantable.		
	Jack Pine	65	Sapling/Pole	4	27	Wh	ite Pine	Trace	5 - 10 feet	Sapling			
No	orthern Pin Oak	30	Sapling/Pole	4		Northe	ern Pin Oak	Low	< 5 feet	Sapling			
						Blac	k Cherry	Low	5 - 10 feet	Sapling			
34	42210 - Nat	ural Red P	ine Sa	awtimb	er Well	98.2	80	81-110	N/A		Harvested in spring of 2004 (720380101 Nancy Brown Selection).		
C	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	Prescription was to distribute 100 ft. X 300 ft openings throughout stand, not to exceed 25% of the stand area. Thin remander to 70 BA.		
	Red Pine	60	Log/XLog	16	80	Northe	ern Pin Oak	Low	5 - 10 feet	Sapling	Openings have filled in mostly with red maple. Pockets of high density		
	White Pine	25	Log/XLog	16		Re	d Maple	Medium	10 - 20 feet	Sapling	white pine and hybrid/white oak regeneration filling in under the mature		
No	orthern Pin Oak	10	Log/Pole/XLog	15		Wh	ite Pine	Medium	5 - 10 feet	Sapling	red and white pine. Average red pine DBH is 16", an older age class is commonly scattered throughout the stand. Many of the super-canopy		
						Е	Beech	Trace	5 - 10 feet	Sapling	trees measured 22-24"DBH, some up to 28"DBH, and cored age ranged		
36	4131 - A	spen, Oak	Po	oletimb	er Well	18.8	51	111-140	N/A		Big tooth aspen with older mixed oak. More oak as you go West. A few		
C	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	scattered RP saw. Oak and RM in sub-canopy.		
В	igtooth Aspen	60	Pole/Log	8	51	Black/Red	d (Hybrid) Oal	c Low	5 - 10 feet	Sapling			
	White Oak	10	Log/XLog	14		Re	d Maple	Medium	10 - 20 feet	Sapling			
Black	/Red (Hybrid) Oak	20	Log/XLog	14	97	Wh	ite Pine	Trace	10 - 20 feet	Sapling			
	Red Maple	10	Pole/Sapling	7									
37	42210 - Nat	ural Red P	ine Sa	wtimb	er Poor	58.0	79	1-50	N/A		Unique stand. Natural red pine with some white pine mixed in. Was		
C	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	shelterwood cut in 2012, leaving 40-50sqft/acre of basal area. Dominant stand age is 78, but cored trees varied between late 70s up to 178 years		
	Red Pine	90	Log/XLog	16	79	Re	d Maple	Medium	Variable	Sapling	old. Some legacy trees in the stand which are generally larger diameter,		
	White Pine	10	Log/Pole/XLog	14		Quak	ing Aspen	Medium	Variable	Sapling	exhibit plate-like/thick bark, and have a distinctly different appearance		
						Black/Red	d (Hybrid) Oal	Medium	5 - 10 feet	Sapling	than the red pines in the 80 year age range. Sub canopy is pretty much all hardwood. 2012 Harvest was planned to be followed up by prescribed burns to facilitate red pine regeneration, which did not occur. OPIC - FMD: 2009: Red Pine/White Pine stand mixed with Oak, Red Maple and some Aspen. Somewhat of an heavy hardwood understory (Pad Maple) OPIV trail transfers the standard hardwood understory.		

(Red Maple). ORV trail traverses through the stand. Recommend heavy shelterwood cut(leave about 40-50BA), followed by an underburn. Should leave heavier along ORV trail. Try for natural Red Pine following the



Stand	nd Level 4 Cover Type			Size Density		Acres	Stand Age I	BA Range	Managed S	ite	General Comments	
38	42110 - Plar	nted Red P	ine F	Poletimb	er Well	15.1	34	111-140	N/A		Red Pine plantation with scattered natural Jack Pine. Evaluate next yoe for first thin. Also, scattered Red Pine sawtimber scattered throughout	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	stand. East side of stand borders Centerline Road. Old Notes: R3 stand	
	Red Pine	85	Pole	7	34	Black/Red	(Hybrid) Oak	c Low	5 - 10 feet	Sapling	with natural JP regen and a scattering of Red pine logs throughout the	
	Jack Pine	15	Pole	7		Red	l Maple	Low	5 - 10 feet	Sapling	stand.	
39	39 4130 - Aspen Po			Poletimber Well		29.7 44 81-110		81-110	N/A		Stand consists quaking aspen clones with pockets of jack pine in	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	between. A trace of larger red pine saw timber scattered throughout the stand. Some of the aspen is developing conks. Most of the aspen is in	
	Quaking Aspen	65	Pole	6	44	Black/Red	(Hybrid) Oak	Medium	10 - 20 feet	Sapling	the 5-8" range. The oak is smaller, with most of it still below the pole	
	Jack Pine	15	Pole	8							class.	
Bla	ck/Red (Hybrid) Oak	18	Sapling/Pole	4								
40	42120 - Plan	ited Jack P	Pine	Sapling	Well	53.9	15	Immature	N/A		Planted jack pine with scattered deciduous. JP is 10-15' on average.	
	Canopy Species	% Cover	Size Class	DBH	Age						OPIC - FMD: 2009 Notes: Jack pine plantation with scattered pockets of Oak and Aspen natural regeneration. Old notes: CC and replant. Cut	
	Jack Pine	95	Sapling	2	15						in winter/spring 2002; Sale # 72-036-01-01; Farrington Road Jack Pine.	
											acres were trenched and planted in accordance to FTP C72-469 in 6/2004. Natural regeneration established in remaining portion - check next inventory.	
41	3303 - Mixed Low Density Trees			Nonstocked				Jnspecified			Yr 3 survey on 10/3/19: 773 TPA red pine, 70% FTG, and 2.1' avg height. A-O-C competition ranges from 4-6' tall, and JP is 1-3' on	
							opy Species		Avg. Height	Size	average. Walk through in June 2019 indicates that stand should be	
							d Pine	Low	< 5 feet	Seeding	sprayed, and passes for mortality. Competition heaviest in E end, Parts of stand in W end can be skipped in release spray. Main competition is	
						Cherry (spp.) Red Maple		Medium	< 5 feet	Sapling	cherry, but some clumps of aspen within the stand as well. Low density	
								Medium	< 5 feet	Seeding	oak and trace of jack pine regen also causing some competition.	
					ļ	Quaki	ng Aspen	Low	< 5 feet	Seeding	Variance to change MO to planted red pine and allow use of herbicide if	
											needed approved on 8-24-2016. Was trenched in 2016 (C72-791), RP planted May 2017. Yr 1 regen survey in June 2018 found 690 RP & 1,666 C-M-A.	
42	4130 -	- Aspen		Sapling	Well	31.5	28	Immature	N/A		Immature aspen stand with mix of other upland deciduous species.	
	Canopy Species	% Cover	Size Class	DBH	Age							
	Bigtooth Aspen	80	Sapling/Pole	4	28							
	Red Maple	12	Sapling/Pole	4								
43	42120 - Plan	ited Jack P	ine	Sapling	Well	36.8	28	1-50	N/A		Immature planted jack pine stand. Some scattered oak, aspen and	
	Canopy Species Jack Pine	% Cover	Size Class Sapling/Pole		Age 28						cherry. Will become a J6 as more stems reach pole class. West end stand contains a steep slope with lower density jack pine and cherry leading to a kettle hole on adjacent private property.	



Stand	Level 4 C		Size De	nsity	Acres	Stand Age	BA Range	Managed	Site	General Comments				
44	3303 - Mixed Low Density Trees			Nonsto	cked	57.6	0	Unspecified	4211 - Planted	Red Pine	Yr 3 survey 10/3/19. 763 TPA Red Pine, 70%FTG, 2.1' avg height A-C			
						Sub-Ca	nopy Species	s Density	Avg. Height	Size	C competition ranges from 4-6' tall, and JP is 1-3' on average. Walk through in June 2019 indicates that stand should be sprayed, and passes			
						Red Pine		Low	< 5 feet	Seeding	for mortality. Took random linear plots during walk through, some			
						Blad	ck Cherry	Medium	< 5 feet	Tall Shrub	isolated areas/rows had higher mortality, but usually due to skips in			
						Re	d Maple	Medium	< 5 feet	Seeding	trenching around stumps/slash. Competition heaviest in E end, but whole stand would benefit from release spray. Main competition is			
						Quak	king Aspen	Medium	< 5 feet	Seeding	cherry, but some larger clumps of aspen within the stand as well. Low			
						Oa	ak (spp.)	Low	< 5 feet	Sapling	density oak and trace of jack pine regen also causing some competition.			
											Variance to change MO to planted red pine and allow use of herbicide approved on 8-24-2016. Trenched 2016 (C72-791), RP planted May 2017. Yr 1 regen survey in June 2018 found 690 RP & 1,666 C-M-A. 2009 Notes: Mature Jack Pine stand with some scattered Oak and Red Pine within the stand.			
45	42120 - Pla	nted Jack F	Pine Po	Poletimber Mediu		m 30.9	36	51-80	N/A		Jack pine stand, not yet ready for harvest. A portion on the West side			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Spe		s Density	Avg. Height	Size	along the road is slightly older and more well stocked, but not enough difference to split stands.			
	Jack Pine	90	Pole/Sapling	9 6	36	Blad	ck Cherry	Low	5 - 10 feet	Sapling	·			
				Black/Red (Hybrid) Oak Low 5 - 10 feet Sapling										
46	42290 - Natural Mixed Pine Sawtimbe		er Well	50.8	82	141-170	N/A		Stand is very similar to stand 34 with the exception of having a larger					
	Canopy Species	% Cover	Size Class	B DBH Age		Sub-Ca	Sub-Canopy Species		Avg. Height	Size	component of white pine. White and red pine averages 16"DBH. An older age class is commonly scattered throughout the stand. Super-			
	Red Pine	38	38 Log/XLog 16			Northern Pin Oak		Low	5 - 10 feet	Sapling	canopy trees measured 22-24"DBH, some up to 28"DBH, and cored age			
	White Pine	45	Log/XLog	16	82	Re	d Maple	Medium	10 - 20 feet	Sapling	ranged from 132 to 164 years on a few samples. This stand, along with			
	Red Maple	10	Log/Pole	12		Wh	ite Pine	Low	Variable	Sapling	stand 37, 34, and 47 all contain these scattered super canopy conifers, which in many cases qualify as legacy trees. The area is somewhat			
											unique to the surrounding state forest land which has had more management influence.			
47	42210 - Na	42210 - Natural Red Pine			er Well	20.1	83	141-170	N/A		Mixed red and white pine stand. Based on cores, origin is approximately			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	1936. There are some large diameter snags, and some super canopy red and white pine that are apparently older. Average DBH is 15", with			
	Red Pine	60	Log/XLog	16	83	Northe	ern Pin Oak	Low	5 - 10 feet	Sapling	quite a few nearing 20". Scattered pin oak saw and poles which appear			
	White Pine	25	Log/XLog	16		WI	nite Oak	Trace	5 - 10 feet	Sapling	to be rapidly declining. Sub-canopy is low to medium stocked and contains pin oak, white oak, white pine, red maple and some beech.			
						Re	d Maple	Low	10 - 20 feet	Sapling	Some areas of steep slope on a ridge that runs approximately N/S			
						Wh	nite Pine	Low	Variable	Sapling	through the stand. A couple potential legacy trees.			
						E	Beech	Trace	5 - 10 feet	Sapling				
48		d Upland Deciduous with Conifer		Poletimber Well		8.8	60	51-80	N/A		Mixed stand. Aspen, JP Pin O. Several kettles, not much flat area. Appears to be retention of adjacent stands from prior sales. Due to small			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	stand size and topography, I would leave this stand for structural diversit adjacent to immature stands.			
	Jack Pine	40	Pole/Log	9	60	Northe	ern Pin Oak	Low	5 - 10 feet	Sapling	sajass is miniataro starias.			
(Quaking Aspen	30	Pole	8		Ja	ick Pine	Low	5 - 10 feet	Sapling				



Stan	d Level 4 C	over Type		Size Density	Acres	Stand Age	BA Range	Managed Sit	te	General Comments
50	4130 Canopy Species Bigtooth Aspen Red Maple	- Aspen % Cover 85 10	Size Class Sapling Sapling	Sapling Well DBH Age 1 15 1	20.6	15	Immature	N/A		Two larger pockets of aspen regeneration were delineated out of stand 21 as stand 50. Contains some deep frost pocket like holes. Stand was harvested in spring of 2004 (Nancy Brown Road Oak 720370101)
51	42210 - Nat Canopy Species Red Pine		ine Size Class Log	Sawtimber Poor DBH Age 14 62	8.2	62	1-50	N/A		Small stand of low density open grown saw size red pine with little to no sub canopy.
52	4130 Canopy Species Bigtooth Aspen Red Maple Northern Pin Oak	- Aspen % Cover 70 15 10	Size Class Sapling Sapling Sapling	Sapling Well DBH Age 2 17 2 2 2	36.3	17	Immature	N/A		Cut in winter/spring 2002; Sale # 72-036-01-01; Farrington Road Jack Pine. FTP created to plant to jack pine. 06/26/2002 mm 49 acres of the 113 acres were trenched and planted in accordance to FTP C72-469 in 6/2004. Natural regeneration established in remaining portion. This section is mostly aspen/maple with pockets of oak. Variable density with some more open areas. Jack pine present along some of the skid routes.
53	4130 Canopy Species Bigtooth Aspen	- Aspen % Cover 95	Size Class Sapling	Sapling Well DBH Age 2 17		17 nopy Species ack Pine	Immature S Density Trace	N/A Avg. Height 5 - 10 feet	Size Sapling	Area of mostly aspen regen with some scattered oak and maple. Aspen is 20 - 30' tall. Some jack pine scattered in sub-canopy. OPIC - FMD: 2009 Notes: Jack pine plantation with scattered pockets of Oak and Aspen natural regeneration. Old notes: CC and replant. Cut in winter/spring 2002; Sale # 72-036-01-01; Farrington Road Jack Pine. FTP created to plant to jack pine. 06/26/2002 mm 49 acres of the 113 acres were trenched and planted in accordance to FTP C72-469 in 6/2004. Natural regeneration established in remaining portion - check next inventory.
54	6229 - Mixed	l lowland sh	nrub	Nonstocked	1.2	0		No		Lowland pocket containing a some scattered jack pine seedlings and lowland shrubs. Standing water present.
55	4130 Canopy Species Quaking Aspen Northern Pin Oak Red Maple Black Cherry	- Aspen % Cover 60 13 10 10	Size Class Sapling Sapling Sapling Sapling	Sapling Medium DBH Age 1 15 1 1 1 1	16.4	15	Immature	N/A		Aspen/Mixed deciduous stand, variable density. Aspen is present in scattered clumps with oak and maple filling in between. Very similar to stand 71 to the East without presence of jack pine clumps. Timber sale # 72-047-01-01 (Richardson Road Jack Pine). Cut by T. R. Timber in 2004. An FTP has been submitted to artificially regenerate any areas that do not regenerate naturally. 11/24/2004
56	4131 - A Canopy Species Quaking Aspen Red Maple Northern Pin Oak	% Cover 40 31 20	Size Class Sapling/Pol Sapling Sapling	-	9.4	6	Immature	N/A		Stand was harvested in 1991, and regenerated to aspen. Most of the pole size aspen that resulted from the 1991 harvest has recently been harvested by beavers. Trails lead toward the large beaver dam in Noodles Lake. Low density stand of mixed deciduous with scattered red, white, and jack pine. Contains an inclusion of open water in a low spot in the Southwest corner.



Stand	d Level 4 Co	Level 4 Cover Type			Size Density		Stand Age BA Rang		ge Managed Site		General Comments
57					Sawtimber Well		135	111-140	N/A		Stand of large log size red and white pine. Borders Noodles Lake and a separate lowland pocket. Leave for structural diversity.
	Canopy Species		Size Class		l Age		opy Species		Avg. Height	Size	
	White Pine	45	Log/XLog/Pole		135		ite Pine	Medium	Variable	Sapling	
	Red Pine	30	Log/Pole/XLog	g 13		Blac	k Cherry	Low	5 - 10 feet	Sapling	
	Jack Pine	20	Pole/Log	9		Red	d Maple	Medium	Variable	Sapling	
64	4125 - Blac	k, N. Pin C)ak	Saplino	j Well	104.4	34	Immature	N/A		Stand is mostly immature oak. Was an A5 stand prior to cut in 1985. Small scattered pockets of aspen that were not cut during that harvest
	Canopy Species	% Cover	Size Class	DBH	l Age						scattered throughout. Also contains some scattered log size red pine.
Bla	ck/Red (Hybrid) Oak	60	Sapling/Pole	3	34						
	Quaking Aspen	20	Pole/Sap/Log	8							
	Red Maple	18	Sapling/Pole	3							
65	42210 - Nat	ural Red P	ine Sa	wtimbe	Medium	n 14.2	57	51-80	N/A		Stand is a narrow strip of scattered Red Pine sawtimber with scattered
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	opy Species	Density	Avg. Height	Size	Jack pine and Red pine pole timber with a jack pine/grass understory. Stand is an old fuel break. Contains a small pond toward the center of
	Red Pine	75	Log/Pole	12	57	Jac	ck Pine	Low	5 - 10 feet	Sapling	the stand in a low spot. South boundary is the snowmobile trail running
	Jack Pine	20	Pole/Log/Sap	9							parallel to Nancy Brown Road which splits the stand.
68	4130	- Aspen		Sapling	y Well	9.7	5	Immature	N/A		Stand harvested under 72-028-11-01, First Sale Jack Pine, boundary
	Canopy Species	% Cover	Size Class	DBH	l Age						exclusion retention left in this stand. Regeneration is a mix of aspen, oak, and red maple. A few sparse areas, but most of the stand
	Quaking Aspen	60	Sapling	1	5						regenerated well.OPIC - FMD: 2009 Notes: Stand keyed out to be A6
	Northern Pin Oak	15	Sapling	1							this time, was a J6 last time. Stand is a mix of Aspen and Jack Pine.
	Red Maple	25	Sapling	1							Recommend final harvest and replant to Jack Pine. No retention to maximize reproduction of Aspen. Old notes: "Hold until 2011 then CC."
											Was part of the Nancy Brown Road Oak timbersale (720370101) but did not get cut before contract expiration. UPDATE:
71	4130	- Aspen	s		Medium	134.4	15	Immature	N/A		Aspen/Mixed deciduous stand, variable density. Aspen is present in scattered clumps with oak and maple filling in between. Some pockets of
	Canopy Species	% Cover	Size Class	DBH	Age						jack pine where deciduous regeneration didn't fill in.
	Quaking Aspen	63	Sapling	1	15						Timber sale # 72-047-01-01 (Richardson Road Jack Pine). Cut by T. R.
	Northern Pin Oak	15	Sapling	1							Timber in 2004.
	Red Maple	15	Sapling	1							
401	3102	- Grass		Nonsto	ocked	1.7			No		Grassy opening with a couple scattered white pines. Appears to have possibly been an old landing site. Old borrow pit within open area.
402	3303 - Mixed Lo	ow Density	[,] Trees	Nonst	ocked	3.1			No	_	Open area. Small pockets of JP and aspen. looks like c small frost pocket.
403	3102	- Grass		Nonsto	ocked	2.2			No		Grass, low density scattered cherry. Slopes down from road into stand 64 leading toward kettle hole stand 407.
404	3102	- Grass		Nonsto	ocked	1.2			No		Grass opening with sparsely scattered cherry, aspen and oak.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age BA Range	Managed Site	General Comments
405	3102 - Grass	Nonstocked	2.1		Managed Opening	OPIC - FMD: Wildlife maintained opening. Historically maintained. JC update: Rye planted in 2014, mast & RGS mix in 2015, and limed & clover planted in 2016 (W72-754).
406	3102 - Grass	Nonstocked	3.8		Managed Opening	OPIC - FMD: Wildlife maintained opening. Historically maintained. JC update: Planted buckwheat & clover in 2014, mast & RGS mix in 2015, and limed & clover planted in 2016 (W72-754). A couple small pockets of sapling/pole size mixed upland deciduous trees.
407	3301 - Low Density Deciduous Trees	Nonstocked	8.8		No	Deep kettle hole, a few scattered cherry, maple, and aspen.
408	3303 - Mixed Low Density Trees	Nonstocked	0.9	Immature	No	Open area with scattered Jack Pine a nee pin oak saplings.
450	3102 - Grass	Nonstocked	0.6		No	Former well site.
451	3102 - Grass	Nonstocked	0.7	0	No	Old wellsite. Mix of low density saplings and grass.
452	3102 - Grass	Nonstocked	0.8		No	Inactive well site
453	3102 - Grass	Nonstocked	0.7		No	Former well site. Grass opening. Access road is now grown over.
454	3102 - Grass	Nonstocked	0.7		No	Inactive well site. Access road has grown over.
462	3102 - Grass	Nonstocked	1.2		No	Former wellsite.
463	3102 - Grass	Nonstocked	0.9		No	Former wellsite.